

[ORAL] Session B. Ozone-Depleting Substances, Sources, Sinks, and Budgets

Date / Time (Tue.) October 5, 2021 / 12:55-13:50 (UTC)

Session Code TUE2

Session Chair Kenneth Jucks

[TUE2_K] 12:55-13:10

Keynote

Long-term Observations of Ozone-Depleting Substances and Their Substitutes from a Regional Background Site in East Asia

Sunyoung Park

Kyungpook National University, Republic of Korea

[TUE2_1] 13:10-13:15

Joint Inference of CFC Lifetimes and Banks Suggests Previously Unidentified Emissions

Megan Lickley¹, Sarah Fletcher², Matt Rigby³, and Susan Solomon¹

¹MIT, USA, ²Stanford University, USA, ³University of Bristol, UK

[TUE2_2] 13:15-13:20

Global Emissions of CFC-11 Dropped Substantially in 2019--Are They Now No Longer Elevated Above Expectations?

Stephen A. Montzka¹, Geoff S. Dutton¹, Lei Hu¹, Robert W. Portmann¹, Martyn P. Chipperfield², Sean Davis¹, Wuhu Feng², Alistair Manning³, Eric Ray¹, Bradley D. Hall¹, Helen Walter Terrinoni⁴, Christina Theodoridi⁵, and Isaac Vimont¹

¹NOAA, USA, ²University of Leeds, UK, ³Met Office, UK, ⁴AHRI, USA, ⁵NRDC, USA

[TUE2_3] 13:20-13:25

Investigating Regional CFC-11 Emissions and Their Changes using Results from HIPPO, ATom, and NOAA Long-Term Atmospheric Sampling

Lei Hu^{1,2}, Stephen Montzka², Fred Moore^{1,2}, Eric Hintsa^{1,2}, Carolina Siso^{1,2}, Geoff Dutton^{1,2}, Kirk Thoning², Robert Portmann², Kathryn McKain^{1,2}, Colm Sweeney², David Nance^{1,2}, Isaac Vimont^{1,2}, Arlyn Andrews², Phil DeCola³, Brad Hall², James Elkins¹, and Steven Wofsy⁴

¹CIRES, USA, ²NOAA, USA, ³University of Maryland, USA, ⁴Harvard University, USA

[TUE2_4] 13:25-13:30

Observation-Based Emissions of Anthropogenic CH₃Br from Eastern China and Discrepancies between Top-down and Bottom-up Estimates

Haklim Choi¹, Mi-Kyung Park¹, Paul J. Fraser², Hyeri Park¹, Sohyeon Geum¹, Jens Mühle³, Jooil Kim³, Peter K. Salameh³, Christina M. Harth³, Bronwyn L. Dunse², Paul B. Krummel², Nada Derek², Ian Porter⁴, Ray F. Weiss³, and Sunyoung Park¹

¹Kyungpook National University, Republic of Korea, ²CSIRO, Australia, ³UCSD, USA, ⁴La Trobe University, Australia

V. Program Schedule

[TUE2_5] 13:30-13:35

Comparison of Recent Observed Trends in Hydrofluorocarbons and Inferred Emissions with Projections

Guus J.M. Velders^{1,2}, John S. Daniel³, Stephen A. Montzka³, Isaac Vimont³, and Matthew Rigby⁴

¹RIVM, The Netherlands, ²Utrecht University, The Netherlands, ³NOAA, USA, ⁴University of Bristol, UK

[TUE2_6] 13:35-13:40

Integrated Ozone Depletion: A New Metric for Ozone Recovery

John Pyle^{1,2}, James Keeble^{1,2}, Luke Abraham^{1,2}, Martyn Chipperfield^{3,4}, and Paul Griffiths^{1,2}

¹University of Cambridge, UK, ²NCAS, UK, ³University of Leeds, UK, ⁴National Centre for Earth Observation, UK

Q&A 13:40-13:50